

525 536

Rec'd POSTO 24 FEB 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 March 2004 (04.03.2004)

PCT

(10) International Publication Number
WO 2004/018646 A2

- (51) International Patent Classification⁷: C12N [BE/US]; c/o The Institute for Genomic Research, 9712 Medical Center Drive, Rockville, MD 20850 (US).
(21) International Application Number: PCT/US2003/026827 MASIGNANI, Vega [IT/TT]; c/o Chiron Corporation, 4560 Horton Street, Emeryville, CA 94608 (US).
- (22) International Filing Date: 26 August 2003 (26.08.2003) (74) Agents: HALE, Rebecca, M. et al.; Chiron Corporation, Intellectual Property R338, P.O. Box 8097, Emeryville, CA 94662-8097 (US).
- (25) Filing Language: English
- (26) Publication Language: English (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (30) Priority Data:
60/406,237 26 August 2002 (26.08.2002) US
60/406,676 27 August 2002 (27.08.2002) US
60/406,757 28 August 2002 (28.08.2002) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier applications:
US 60/406,237 (CIP)
Filed on 26 August 2002 (26.08.2002)
US 60/406,676 (CIP)
Filed on 27 August 2002 (27.08.2002)
US 60/406,757 (CIP)
Filed on 28 August 2002 (28.08.2002)
- (71) Applicants (*for all designated States except US*): CHIRON CORPORATION [US/US]; 4560 Horton Street, Emeryville, CA 94608-2916 (US). THE INSTITUTE FOR GENOMIC RESEARCH [US/US]; 9712 Medical Center Drive, Rockville, MD 20850 (US).
- (72) Inventors; and
(75) Inventors/Applicants (*for US only*): TETTELIN, Herve
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: CONSERVED AND SPECIFIC STREPTOCOCCAL GENOMES

(57) Abstract: The invention relates to polynucleotides which are conserved or specific to one or more species of Streptococcus, Streptococcus species serotypes, and/or serotype isolates. In particular, the invention relates to polynucleotides from Streptococcus which are conserved or specific to one or more of the species of *S. pneumoniae* ("pneumococcus" or "S. pn."), *S. pyogenes* ("group A streptococcus" or "GAS"), and *S. agalactiae* ("group B streptococcus" or "GBS"). The invention further relates to polynucleotides which are conserved or specific to one or more Streptococcal species serotypes, such as GBS serotypes Ia, Ib, II, III, IV, V, VI, VII, and VIII. The invention still further relates to polynucleotides which are conserved or specific to one or more clinical isolates of a Streptococcus species.

WO 2004/018646 A2